Author Index

A

Acharya, H.K., see Trivedi, P.D.
Aharoni, S.M.: Rigid Backbone Polymers. 19. Apparent Minimal Viscosity - Molecular Weight Dependence of Anisotropic Poly(n-hexylisocyanate) Solutions 95
Albers, J., see Krüger, J.K.
Alig, I., see Schlothauer, K.
Amo, B., see Katime, I.A.
Ananiescu, C., see Simionescu, C.I.
Andreis, M., Veksli, Z., Vuković, R., Kurešević, V.: Spin Label Studies of Poly(phenylvinyl alkyl thioethers)-co-Maleic Anhydride in Different Solvents 513
Azori, M., see Csákvári, É.
Azori, M., see Simon, P.

B

Balakrishnan, T., Ponnusamy, E., Kothandaraman, H.: Preparation and Study of Terephthalate Copolyester of Ethylene Glycol and Butane-1,4-Diol 187
Baltá Calleja, F.J., see Plans, J.
Bărbînță, V., see Caraculacu, A.
Basha, A.F., see El Sayed, A.A.
Basosi, R., Laschi, F., Rossi, C.: Effectiveness and Limits of Magnetic Resonance Techniques in the Identification of Different Coordination Pathways of the Mn(II) in the Presence of Biomacromolecules 263
Batzer, H., Kreibich, U.T.: Influence of Water on Thermal Transitions in Natural Polymers and Synthetic Polyamids 585
Benedetti, E., see Galli, G.
Bergmann, K.: Determination of Polymer Crystallinity from Proton Solid-Echo NMR Measurements 355
Bertucci, C., Carlini, C., Ciardelli, F., Rosini, C., Salvadori, P.: Optically Active Hydrocarbon Polymers with Aromatic Side Chains. 11. Dependence of Chiroptical Properties on the Distance Between Main Chain and Aromatic Group 535
Bhardwaj, I.S., see Sivaram, S.
Bhardwaj, I.S., see Trivedi, P.D.
Blicharski, J.S., Harańczyk, H., Strzalka, K.: Proton Spin-lattice Relaxation in Thylakoid Membranes of Chloroplasts. Proton Dilution Studies 285
de Boer, J., Pennings, A.J.: Crosslinking of Ultra-high Strength Polyethylene Fibers by Means of γ-Radiation 317
Bölstler, H., see Grossmann, H.-P.
Bovey, F.A., see Starnes, W.H., Jr. (Correction)
Brandt, K.A., see Overberger, C.G.
Braun, D., Holzer, G., Hjertberg, Th.: ^{1}H-NMR/^{13}C-NMR Studies of Branched Structures in PVC Obtained at Atmospheric Pressure 367
Brossas, J., see Clouet, F.
Bruce, M.R., see Clouet, F.
Brunelet, T., Gelbard, G., Guyot, A.: Oxidation of Alcohols with Chromium Complexes Supported on Polyvinyl-Pyridine Resins. Influence of the Structure of the Resin on Its Performances 145
Buruiană, E., see Caraculacu, A.
Busulini, L., see Pezzin, G.

C

Čačkovič, H., see Loboda-Čačkovič, J.
Cais, R.E., see Starnes, W.H., Jr. (Correction)
Callaghan, P.T., Pinder, D.N.: Pulsed Field Gradient NMR. Directly Determined Polymer Self Diffusion Coefficients Compared with Those Derived from Sedimentation of Mutual Diffusion 305
Cantow, H.-J., see Krüger, J.K.
Cantow, H.-J., see Möller, M.
Caraculacu, A., Robilă, G., Buruiană, E., Bărbîntă, V.: On the PVC Chlorination Mechanism 167
Carlini, C., see Bertucci, C.
Chang, V.S.C., Kennedy, J.P.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers). 16. Synthesis and Characterization of Polyisobutylenes with Si-Cl and Si-H End-Groups 379
Chen, S.-I., see Soga, K.
Chujo, Y., see Yamashita, Y.
Chiellini, E., see Galli, G.
Ciardelli, F., see Bertucci, C.
Clouet, F., Brossas, J., Olah, G.M., Bruce, M.R.: Cationic Modification of Polystyrene. Synthesis and Characterization of Poly(p-Methylthio) Carbonylstyrene and Poly (p-Carboxystyrene) 201
Cohen-Addad, J.P., see Feio, G.
Cortazar, M., Guzmán, G.M.: Effect of Nucleating Agents upon the Kinetics of Polybutene-1 Crystallization 635
Csákvári, E., Azori, M., Tüdős, F.: Physico-Chemical Studies of Polymeric Carriers. 1. Hydrolysis and Fractionation of Copolymer of N-Vinylpyrrolidone and Maleic Anhydride 413
Csákvári, E., Azori, M., Tüdős, F.: Physico-Chemical Studies of Polymeric Carriers. 2. Molecular Mass Determination of Poly(n-Vinylpyrrolidone-co-maleic acid) Fractions 673
Czuppon, A., Kroó, N., Vizi, I., Rosta, L., Kiss, L.: Small Angle Neutron Scattering on Polyacrylonitrile Polymerized by Gamma-Ray Irradiation 627

D

Derzhanski, A., Zhelioskova, A.: NMR Study on Phase Transitions in Lyotropic Liquid Crystals Caused by Hydrophobic Additives 667
Deshpande, A.B., see Gaylord, N.G.
Dobó, J., see Takács, E.
Dobrescu, V.: An Empirical Model for the Melt Viscosity of Polymer Blends 75
O'Donnell, J.H., O'Sullivan, P.W.: A Kinetic Study of Crosslinking Vinyl Polymerization by Laser Raman Spectroscopy. Free Radical Polymerization of Diethylene Glycol Bis(allyl carbonate) 103

E

Ebert, A., see Kunze, J.
Edzes, H.T., Veeman, W.S.: ^{13}C NMR Spin-Lattice Relaxation in Solid Poly (Methyl methacrylate). Effects of Tacticity and of Plasticizers 255
Engelhardt, G., Jancke, H.: Structure Investigation of Organosilicon Polymers by Silicon-29 NMR 577
Engström, T., Samuelson, O.: Delignification of Wood Pulp by Hot Alkali Treatment Following NO_2/O_2 Pretreatment 385
Erk, Ç., see Hoşgören, H.
Espenschied, B., Schulz, R.C.: Metalation and N-Alkylation of Some Polyamides 489

F

Farrall, M.J., see Hagen, A.J.
Feio, G., Cohen-Addad, J.P.: Dynamical Polymer Coil Overlap Observed by NMR on Polystyrene Chains. Concentration and Mass Effects 277
Filipović, J., see Veličković, J.
Florianczyk, T., Sullivan, C., Janovic, Z., Vogl, O.: Alternating Copolymers of Dimethylmaleic Anhydride 521
Fréchet, J.M.J., see Hagen, A.J.
Frigge, K., see Kunze, J.,
Fujisawa, T., see Uragami, T.

G

Galli, G., Benedetti, E., Chiellini, E., Ober, C., Lenz, R.W.: Phase Transitions in Alkylene Glycol Terephthalate Copolyesters Containing Mesogenic p-Oxybenzoate Units 497
Gaylord, N.G., Martan, M., Deshpande, A.B.: Copolymerization of Cyclopentadiene and N-Phenylmaleimide 623
Gaylord, R.J., Young Hwa Kim: A Continuum Analysis of a System of Many 'Real' Chains Confined Between a Pair of 'Sticky' Surfaces, with Application to the 'Sandwich' Model of Bulk Polymers 179
Gelbard, G., see Brunelet, T.
Geschke, D., Pöschel, K., Ludwigs, K.: Effect of Chemical Crosslinking on Molecular Mobility in Swollen Polystyrenes 341
Głowinkowski, S., Jurga, K., Pająk, Z.: NMR Study of Molecular Motion in Poly(Ethylene oxide) 271
Goźdź, A.S.: Phase-Transfer Catalyzed Reactions on Polymers. 4. The Reaction of Crosslinked Poly(chloromethylstyrene) with Phthalimide 591
Grossmann, H.P.: Investigation of Conformational Transitions in Cycloalkanes, Especially $(CH_2)_{22}$ 137
Grossmann, H.P., Bölstler, H.: Longitudinal Acoustic Modes in Cycloalkanes 175
Gutierrez Cabañas, P., see Katime, A., I.A.
Guyot, A., see Brunelet, T.
Guzmán, G.M., see Cortazar, M.

H

Hagen, A.J., Farrall, M.J., Fréchet, J.M.J.: Chemical Modification of Polystyrene. Introduction of Sulfinate and Sulfone Functionalities 111
Harada, K., see Nomoto, N.M.
Harańczyk, H., see Blicharski, J.S.
Hauer, J., see Šebenda, J.
Havlíček, I.: The Connection Between the Measured Glass Transition Temperature and the Time Dependent Order Parameter Description of the Glass Transition 597
Henrici-Olivé, G., Olivé, S.: Inter- versus Intramolecular Oligomerization of Nitrile Groups in Polyacrylonitrile 457
Heyraud, A., see Rochas, C.
Höcker, H., see Möller, M.
Holzer, G., see Braun, D.
Hoşgören, H., Erk, C.: Some Aromatic Derivatives of 1,4,7,10,13,16-Hexaoxacyclooctadecane 47
Huguet, J., Vert, M.: Optically Active Poly-n-Vinyl-3-Methyl-2-Pyrrolidones 505

I

Ioan, S., see Sabiliovschik,M.
Ioan, S., Simionescu, B.C., Simionescu, C.I.: Conformational Changes of Methacrylonitrile-Styrene Copolymers in Diluted Solutions 563
Ito, K., see Yamashita, Y.
Jancke, H., see Engelhardt, G.
Janovic, Z., see Florianczyk, T.
Jurga, K., see Głowinkowski, S.

K

Kaku, M., see Kobayashi, S.
Kaku, M., see Kobayashi, S., (Correction)
Katime, I.A., Amo, B.: Relationship Between Preferential Adsorption Coefficient and Intrinsic Viscosity in Ternary Systems 67
Katime, I.A., Gutierrez Cabañas, P., Ramiro Vera, C.: Conformational Transition in Poly(methyl methacrylate). 4. Influence of Solvent Nature 25
Kawakami, Y., see Yamashita, Y.
Kelen, T., see Pukánszky, B.
Kennedy, J.P., see Chang, V.S.C.
Kennedy, J.P., see Liao, J.-P.
Kennedy, J.P., see Pukánszky, B.,
Kennedy, J.P., Ross, L.R., Nuyken, O.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiatortransfer Agents (Inifers). 14. Characterization of Linear and Three-arm Star Polyisobutylenes by Degradative Oxidation 5

Khalil, W.M., see El Sayed, A.A.
Kikyotani, S., see Overberger, C.G.
Kimmich, R., see Krüger, J.K.
Kiss, L., see Czuppon, A.
Klesper, E., see Schmitz, F.P.
Kobayashi, H., see Yamashita, Y.
Kobayashi, K., Sumitomo, H.: Active Transport of Alkali Metal Ion Through a Membrane Composed of Gluconolactone-Containing Polymer 373
Kobayashi, S., Kaku, M., Saegusa, T.: Cationic Ring-Opening Polymerization of Spirophosphorane, 5-Phenyl-1,4,6,9-tetraoxa-5-phosphaspirol[4,4] nonane 325
Kobayashi, S., Kaku, M., Saegusa, T.: Cationic Ring-Opening Polymerization of Spirophosphorane, 5-Phenyl-1,4,6,9-tetraoxa-5-phosphaspirol[4,4]nonane (Correction) 477
Kobayashi, S., Okawa, M., Niwano, M., Saegusa, T.: Redox 1:1 Alternating Copolymerization of Cyclic Acyl Phosphonite with 4,4'-Diphenoquinones 331
Kohjiya, S., Ohta, S., Yamashita, S.: Reaction of Poly(epichlorohydrin) with Sodium Diethyldithiocarbamate and RI-UV Dual-Detector GPC of the Product 463
El Konsol, S.A., see El Sayed, A.A.
Kothandaraman, H., see Balakrishnan, T.
Králiček, J., see Roda, J.
Kreibich, U.T., see Batzer, H.
Kroõ, N., see Czuppon, A.
Krüger, J.K., Albers, J., Möller, M., Cantow, H.-J.: Micro- and Macroconformation of Macromolecules. 9. Cyclotetracosane Solid and Molten State Phase Transitions by DSC, Brillouin Scattering, Dielectric and ^{13}C-NMR High Resolution Measurements 131
Krüger, J.K., Kimmich, R., Sandercock, J., Unruh, H.-G.: The Thermal Behaviour of n-Tetracosane and Low Molecular Weight Polyethylene Studied by NMR and a Refined Brillouin Scattering 615
Krüger, J.K., see Möller, M.
Kunze, J., Ebert, A., Schröter, B., Frigge, K., Philipp, B.: ^{13}C- and ^{23}Na-NMR Investigations on Alkali Cellulose 399
Kureševič, V., see Andreis, M.

L

Labischinski, H., see Patel, A.
Laschi, F., see Basosi, R.
Leancă, M., see Simionescu, C.I.
Lenz, R.W., see Galli, G.
Liao, J.-P., Kennedy, J.P.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiatortransfer Agents (Inifers). 15. Synthesis and Characterization of Telechelic Acid-ester Polyisobutylenes 11
Loboda-Čačkovič, J., Čačkovič, H.: Straining Mechanisms of Hard Elastic Fibers Obtained by Broad Line Nuclear Magnetic Resonance Measurements 291
Lora, S., see Pezzin, G.
Ludwick, A.G., see Overberger, C.G.
Ludwigs, K., see Geschke, D.

M

Man, E., see Percec, V.
Martan, M., see Gaylord, N.G.
Martinez, G., see Millán, J.
Mijangos, C., see Millán, J.
Millán, J., Martinez, G., Mijangos, C.: Nucleophilic Substitution on PVC Effect of the Tacticity 407
Möller, M., Cantow, H.-J.: Micro- and Macroconformation of Macromolecules. 7. Crystalline and Amorphous Phase Conformational Analysis in Semicrystalline Polymers by ^{13}C-NMR Under the Magic Angle 119
Möller, M., Cantow, H.-J., Krüger, J.K., Höcker, H.: Micro- and Macromolecules. 8. Magic Angle ^{13}C-NMR Investigation on Linear n-Alkanes and Highly Mobile Phase Cyclotetracosane as Models for Solid State Polyethylene
Möller, M., see Krüger, J.K.
Morishima, Y., Tanaka, T., Nozakura, S.: Syntheses of Block Copolymers of 2-Methyl-2-oxazoline and Aromatic Vinyl Compounds 19
Mousa, A.M., see Al Sayed, A.A.

Muller, G.: Thermal Stability of High-molecular-weight Polyacrylamide Aqueous Solutions 31

Muller, G.: Thermal Stability of Polyacrylamide Solutions: Effect of Residual Impurities in the Molecular-weight-degradation Process upon Heating 39

N

Nanjan, M.J., see Sachindrapal, P.
Natansohn, A., see Percec, V.
Niwano, M., see Kobajashi, S.
Nomoto, M.M., Sakai, F., Harada, K.: Introduction of Functional Groups to Polyalanine and Alanine by Contact Glow Discharge Electrolysis 451
Nozakura, S., see Morishima, Y.
Nuyken, O., see Kennedy, J.P.

O

Ober, C., see Galli, G.
Ohta, S., see Kohjiya, S.
Okada, K., see Yamashita, Y.
Okawa, M., see Kobayashi, S.
Olah, G.M., see Clouet, F.
Olivé, S., see Henrici-Olivé, G.
Osredkar, U., see Šebenik, A.
Overberger, C.G., Brandt, K.A. Kikyotani, S., Ludwick, A.G.: Hydrophilic Polymers Containing Chiral Nucleic Acid Base Pendants as Polynucleotide Analogs 481

P

Padhi, R.C., see Patel, A.
Pająk, Z., see Głowinkowski, S.
Patel, A., Padhi, R.C., Labischinski, H.: Fine Structural Characteristics and Physical Properties of Raw Silk 437
Pennings, A.J., see de Boer, J.
Percec, V.: Synthesis of ABA Triblock Copolymers Containing Electro-Donor or Electrono-Acceptor Pendant Groups in A Blocks 643
Percec, V.: Synthesis and Polymerization of 2-(β-N-Carbazolyl-ethyl)-2-Oxazoline and 2-(3,5-Dinitrophenyl)-2-Oxazoline 651
Percec, V.: New 3-Halogencarbazole Containing Monomers and Polymers 659
Percec, V., Natansohn, A., Simionescu, C.I.: Intramolecular Charge Transfer Complexes. 17. Evidence for Complex Participation in Copolymerization of N-(2-Hydroxyethyl) Carbazolyl Methacrylate with Methacryloyl-β-hydroxyethyl-3,5-dinitrobenzoate 217
Percec, V., Natansohn, A., Simionescu, C.I.: Intramolecular Charge Transfer Complexes. 18. Solvent Influence in Copolymerization of N-(2-Hydroxyethyl) Carbazolyl Methacrylate with Methacryloyl-β-hydroxyethyl-3,5-dinitrobenzoate 225
Percec, V., Natansohn, A., Simionescu, C.I.: Intramolecular Charge Transfer Complexes. 19. Copolymers Having as Acceptor Structural Units 3,5-dinitrobenzoic Acid Derivatives with Different Distances from the Main Chain 239
Percec, V., Natansohn, A., Tocaciu, D.C., Simionescu, C.I.: Intramolecular Charge Transfer Complexes. 20. Copolymers of Acryloyl and Methacryloyl-2'-hydroxyethyl-2-(N-phenothiazinyl) Propionate with Methacryloyl-2'-hydroxyethyl-3,5-dinitrobenzoate 247
Percec, V., Tocaciu, D.C., Man, E., Simionescu, C.I.: New Phenothiazine-containing Monomers and Polymers 233
Pezzin, G., Lora, S., Busulini, L.: Fractionation of Poly bis(p-Methylanilino) Phosphazene 543
Philipp, B., see Kunze, J.
Pinder, D.N., see Callaghan, P.T.
Plans, J., Baltá Calleja: Electrical Conductivity in Doped Polyethylene 311
Plitz, I.M., see Starnes, W.H., Jr. (Correction)
Pöschel, K., see Geschke, D.
Ponnusamy, E., see Balakrishnan, T.
Ponomarenko, A.V., see Zobov, V.E.
Pukánszky, B., Kennedy, J.P., Kelen, T., Tödős, F.: Cationic Reactions in the Melt. I. The Effect of Lewis Acids on Polystyrene 469

R

Ramasamy, S., see Sachindrapal, P.
Ramiro Vega, C., see Katime, A., I.A.

Rånby, B., Rodehed, C.: Water Vapor Absorption and Aqueous Retention of Hydrolyzed Starch Polyacrylonitrile Graft Copolymers - "Superabsorbent Starch" 87
Robilă, G., see Caraculacu, A.
Rochas, C., Heyraud, A.: Acid and Enzymic Hydrolysis of Kappa Carrageenan 81
Rockenbauer, A., see Simon, P.
Roda, J., Sysel, P., Králiček, J.: Polymerization of Lactams. 47. Anionic Polymerization of 2-Pyrrolidone Accelerated by 1-(1-Pyrrolin-2-yl)-2-pyrrolidone 609
Rodehed, C., see Rånby, B.
Rosini, C., see Bertucci, C.
Ross, L.R., see Kennedy, J.P.
Rossi, C., see Basosi, R.
Rosta, L., see Czuppon, A.

S

Sabiliovschi, M., Ioan, S., Vasile, C.: On the Compatibility of Polystyrene/Acrylonitrile-Butadiene-G-Styrene Copolymer/Solvent System 53
Sachindrapal, P., Ramasamy, S., Nanjan, M.J.: Synthesis of Aromatic-Aliphatic-Polyamides Containing Azo Linkage 417
Saegusa, T., see Kobayashi, S.
Saegusa, T., see Kobayashi, S. (Correction)
Sakai, F., see Nomoto, M.M.
Salvadori, P., see Bertucci, C.
Samuelson, O., see Engström, T.
Sandercock, J., see Krüger, J.K.
El Sayed, A.A., Mousa, A.M., El Konsol, S.A., Basha, A.F., Khalil, W.M.: Induced Electrical Conductivity in Irradiated PVC, PS, and PMMA 209
Schilling, F.C., see Starnes, W.H., Jr. (Correction)
Schlothauer, K., Alig, I.: Carbon-13 NMR Investigation of Vinylchloride/Vinyl-acetate Copolymers. The Influence of Copolymerization on the Tacticity of PVC Sequences 299
Schmitz, F.P., Klesper, E.: Separation of Styrene Oligomers by Supercritical Fluid Chromatography (SFC) Using a Modified HPLC-Instrument 603
Schröter, B., see Kunze, J.
Schulz, R.C., see Espenschied, B.
Schwarz, J.: A Modification of Rubber Elasticity Theory 151
Schwarz, J.: A Modification of Rubber Elasticity Theory (Correction) 478
Šebenda, J., Hauer, J.: Living Polymerization of Lactams and Synthesis of Monodisperse Polyamides 529
Šebenik, A., Osredkar, U., Vizovišek, I.: Polycondensation of Higher Phenols and Unsaturated Aldehydes 557
Simionescu, B.C., see Ioan, S.
Simionescu, B., see Simionescu, C.I.
Simionescu, C.I., see Ioan, S.
Simionescu, C.I., see Percec, V.
Simionescu, C.I., Simionsescu, B., Leancă, M., Ananiescu, C.: Plasma-Induced Polymerization. 6. "Living" Macroradicals as Macromolecular Initiators 61
Simon, P., Rockenbauer, A., Azori, M., Tüdős, F.: ESR Study of the Spin Labeled Polyethylene Crosslinking System 425
Singh, R.P.: Quantum Yield of Photolytic Degradation of Poly(i-Butene) 443
Sivaram, S., Upadhyay, V.K., Bhardwaj, I.S.: Synthesis, Characterization and Polycondensation of Bis-(4-Hydroxybutyl) Terephthalate 159
Soga, K., Yamamoto, K., Chen, S.: A Convenient Method for the Preparation of a Highly Active SiO_2-supported $CoCl_2$ Catalyst for the Polymerization of Isoprene 1
Starnes, W.H., Jr., Schilling, F.C., Plitz, I.M., Cais, R.E., Bovey, F.A.: Detailed Microstructure and Concentration of the Chlorinated n-Butyl Branches in Poly(vinyl chloride) (Correction) 117
Strzałka, K., see Blicharski, J.S.
Sugihara, M., see Uragami, T.
O'Sullivan, P.W., see O'Donnell, J.H.
Sullivan, T., see Florianczyk, T.
Sumitomo, H., see Kobayashi, K.
Sysel, P., see Roda, J.

Szesztay, M., Tüdős, F.: GPC Calibration for Poly(Methyl Acrylate) 429

T

Tajima, Y., see Yamashita, Y.
Takács, E., Dobó, J.: Microcalorimetric Investigation of High Conversion Polymerization 551
Tanaka, T., see Morishima, Y.
Tocaciu, D.C., see Percec, V.
Trivedi, P.D., Acharya, H.K., Bhardwaj, I.S.: Preliminary Study of Cationic Copolymerization of α-Methylstyrene and Isobutyl Vinyl Ether. 3. Homopolymerization of α-Methyl Styrene Using t BuCl/Et_2AlCl Initiator System 393
Tsukahara, Y., see Yamashita, Y.
Tüdős, F., see Csákvári, E.
Tüdős, F., see Pukánszky, B.
Tüdős, F., see Simon, P.
Tüdős, F., see Szesztay, M.

U

Unruh, H.-G., see Krüger, J.K.
Upadhyay, V.K., see Sivaram, S.
Uragami, T., Fujisawa, T., Sugihara, M.: Studies on Syntheses and Permeabilities of Special Polymer Membranes. 42. Separation of Binary Organic Solvent Mixtures Through Nylon 12 Membranes 195

V

Vasile, C., see Sabiliovschi, M.
Veeman, W.S., see Edzes, H.T.
Veksli, Z., see Andreis, M.
Veličković, J., Filiopović, J.: Dilute Solution Properties of Styrene)Di-n-Alkyl-Itaconate Copolymers 569
Vert, M., see Huguet, J.
Vizi, I., see Czuppon, A.
Vizovišek, I., see Šebenik, A.
Vogl, O., see Florianczyk, T.
Vuković, R., see Andreis, M.

Y

Yamamoto, K., see Soga, K.
Yamashita, S., see Kohjiya, S.
Yamashita, Y., Chujo, Y., Kobayashi, H., Kawakami, Y.: Syntheses of Polyamide-Poly(methyl methacrylate) Graft Copolymers by Polycondensation Reactions of Macromonomers 361
Yamashita, Y., Tsukahara, Y., Ito, K., Odaka, K., Tajima, Y.: Synthesis and Application of Fluorine Containing Graftcopolymers 335
Young Hwa Kim, see Gaylord, R.J.

Z

Zheliaskova, A., see Derzhanski, A.
Zobov, V.E., Ponomarenko, A.V.: The Possibility of Studying Thermal Motion Correlation by Multiple Pulse NMR 347

Subject Index

A

ABA triblock copolymers 643
Acrylonitrile 373
Acrylonitrile-butadiene-g-styrene 53
Acyl phosphonite 331
Adsorption coefficient 67
Alanine 451
Alcohols, oxidation of 145
Aldehydes 557
Alkali cellulose 399
Alkali metal ions 373
n-Alkanes 125
N-Alkylation 489
Aromatic derivatives 47
Aromatic side chains 535
Azo linkages 417

B

Biomacromolecules 263
Bis-(4-hydroxybutyl) terephthalate 159
Block copolymers 19
Brillouin scattering 131
Brillouin scattering technique 615
Butane-1,4-diol 187

C

2-(β-N-Carbazolylethyl)-2-oxazoline 651
Carrageenan 81
Catalysts 1
Cationic modification 201
Cationic ring-opening polymerization 325, 477
Cellulose 385
Charge transfer complexes 217, 225, 239, 247
Chiral nucleic acid 481
Chiroptical properties 535
Chlorination 167
Chloroplasts 285
Chromium complexes 145
Conformational analysis 119
Conformational changes 563
Conformational transitions 137
Copolymerization 299
Copolymerization, solvent influence 225
Copolymers 247, 521
Crosslinking 317, 341
Crosslinking system 425
Crystallinity 355
Crystallography 437
Cycloalkanes 137, 175
Cyclopentadiene 623
Cyclotetracosane 125, 131

D

Dielectric measurements 131
Diethylene glycol bis(allyl carbonate) 103
Diffusion coefficients 305
Dimethylmaleic anhydride 521
Di (d-methylsilyl)-polyisobutylene 383
3,5 Dinitrobenzoic acid derivatives 239
2-(3,5-Dinitrophenyl)-2-oxazoline 651
4,4'-Diphenoquinones 331

E

Electrical conductivity 209, 311

Electrono-donor monomers 233
Enzymic hydrolysis 81
Ethylene glycol 187

F

Fibers 291, 317
Fluorine containing graft-copolymers 335

G

Gamma-ray irradiation 627
Glass transition temperature 597
Glow discharge electrolysis 451
Gluconolactone 373
GPC calibration 429
Graftcopolymers 335, 361

H

3-Halogencarbazole 659
Hexaoxacyclooctadecane 47
HPLC 603
Hydrocarbon polymers 535
Hydrophilic polymers 481
Hydrophobic additives 667
Hydrosilylation 379
N-(2-Hydroxyethyl)carbazolyl methacrylate 217, 225

I

Impurities 39
Inifers 5, 11, 379
Interacting chains 179
Intermonomeric complex participation 247
Intrinsic viscosity 67
Irradiation 209
Isoprene 1

K

Kraft pulp 385

L

Lactams 529, 609
Laser Raman spectroscopy 103
Lewis acids 469
Lignin 385
"Living" macroradicals 61
Living polymerization 529
Longitudinal acoustic modes 175
Lyotropic liquid crystals 667

M

Macromonomers 361
Magnetic resonance technique 263
Maleic anhydride 413, 513
Manganese 263
Melts 469
Melt viscosity 75
Membranes 195, 373
Metalation 489
Methacrylonitrile-styrene copolymers 563
Methacryloyl-ß-hydroxyethyl-3,5-dinitrobenzoate 217, 225
2-Methyl-2-oxazoline 19
Methyl styrene, cationic copolymerization 393
Microcalorimetry 551
Molecular mobility 341
Molecular motion 271
Multiple pulse NMR 347

N

Natural polymers 585
Networks 317
Neutron scattering 627
Nitrile groups 457
^{13}C-NMR 119, 125, 131
NMR investigations 399
NMR, pulsed field gradient 305
^{13}C NMR spin-lattice relaxation 255
NMR studies 367
Nylon 12 membranes 195

O

Optical activity 505, 535
Order parameter description 597
Organosilicon polymers 577
p-Oxybenzoate 497

P-Q

Phase transfer 591
Phase transitions 497, 667
Phenols 557

Phenothiazine 233
N-Phenylmaleimide 623
5-Phenly-1,4,6,9-tetraoxa-5-phosphaspiro[4,4]nonane 477
Phosphazene 543
Photolytic degradation 443
Phthalimide 591
Plasticizers 255
Polyacrylamide 31, 39
Polyacrylonitrile 457, 627
Polyalanine 451
Polyamide-poly(methyl methacrylate) 361
Polyamides 489, 529, 585
Polyamides, aromatic-aliphatic 417
Poly bis(p-methylanilino)phosphazene 543
Poly(i-butene) 443
Polybutene-1 crystallization 635
Poly(chloromethylstyrene) 591
Polycondensation 557
Poly(epichlorohydrin) 463
Polyethylene 75, 311, 317, 615
Poly(ethylene oxide) 271
Polyisobutylenes 5, 11, 379
Polymer blends 75
Polymer coil overlap 277
Polymeric carriers 413, 673
Polymerization 61, 551
Polymers 95
Polymethylacrylate 209
Poly(methyl acrylate) 429
Poly(methyl methacrylate) 25, 255
Poly(n-hexylisocyanate) solutions 95
Polynucleotide analogs 481
Poly-n-vinyl-3-methyl-2-pyrrolidones 505
Poly(n-vinylpyrrolidone-co-maleic acid) 673
Poly((p))-carboxystyrene) 201
Poly(phenylvinyl alkyl thioethers) 513
Poly(p-methylthio)carbonylstyrene 201
Polystyrene 53, 111, 201, 209, 469
Polystyrenes 341
Polystyrene chains 277
Poly(vinyl chloride) 117, 367
Poly vinylchloride 167
Polyvinylchloride 209, 407
Polyvinyl-pyridine resins 145
Proton relaxation time measurements 341
Proton solid-echo NMR measurements 355
Proton spin-lattice relaxation 285
2-Pyrrolidone 609
1-(1-Pyrrolin-2-yl)-2-pyrrolidone 609
Quinones 331

R

γ-Radiation 317
Raman spectroscopy 175
Redox copolymerization 331
Rubber elasticity theory 151, 478

S

'Sandwich' model 179
Self-diffusion coefficients 305
Semicrystalline polymers 119
Separation of binary organic solvent mixtures 195
Silicon-29 NMR 577
Silk 437
Sodium diethyldithiocarbamate 463
Solution properties 569
Spin labeled polyethylene 425
Spin label studies 513
Spirophosphorane 477
Spirophosphorane, 5-phenyl-1,4,6,9-tetraoxa-5-phosphaspiro[4,4]nonane 325
Starch polyacrylonitrile graft copolymers 87
Straining mechanism 291
Styrene 373
Styrene(Di-n-alkyl itaconate copolymers 569
Styrene oligomers 603
Sulfinate functional groups 111
Sulfinate polymers 111
"Superabsorbent starch" 87
Supercritical fluid chromatography 603
Surfaces 179

T

Tacticity 255, 299, 407
Telechelic polymers 5, 11, 379
Terephthalate copolyester 187
Terephthalate copolyesters 497
Ternary systems 67
n-Tetracosane 615
Thermal motion correlation 347
Thermal transitions 585
Thylakoid membranes 285
Titanium-derived catalysts 159

U

Ultra-high strength polyethylene 317

V

Vinyl-chloride/vinyl-acetate copolymers 299
Vinyl compounds 19
Vinyl polymerization 103
N-Vinylpyrrolidone 413
Viscosity 95

W

Water 585
Water vapor absorption 87
Wood pulp 385